Maj Waller/

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LOCKHEED MISSILES AND SPACE COMPANY SUNNYVALE CALIF

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DOUGLAS AIRCRAFT COMPANY VANDENBERG AFB CALIF /[illegible]/ ZIPS

INFO: INTERNATIONAL [illegible] VANDENBERG AFB CALIF /[illegible]/ ZIPS

DET 1 [illegible] AIR FORCE LAUNCH COMMAND SUPPORT GROUP VANDENBERG AFB CALIF /[illegible]/ ZIPS

[illegible] PATRICK AFB FLORIDA

[illegible] AIR MATERIEL AREA HILL AFB UTAH

HQ AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO

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RECEIVED FROM [illegible] 12-10-[illegible]

[redacted] 15 OCT 61

OFFICE SYMBOL	[redacted]				
NAME (SIGNATURE)	[redacted]				
DATE	Charles E. Waller, Major, USAF				

AFBMD Form 11 [illegible] COORDINATION SHEET

1 Nov 59

LAWRENCE A. PARET, JR., Colonel, USAF
Deputy Assistant [illegible] 9 Jun 59

Air Force Base, Ogden, Utah

VWZD Official File C7

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[illegible] AFB CALIF

[illegible] FOR [illegible] SEMCLN [illegible] FOR COL MOORE SEMCLN LMSC/ [illegible] FOR TWCA-3 /R.J. [illegible]/ SEMCLN LMSC/VAFB FOR DEPT [illegible] SEMCLN DAC/VAFB FOR MR. [illegible]. INFO CLN [illegible] FOR COMMAND POST AND COSPA SEMCLN AFLC/VAFB FOR MR. [illegible] SEMCLN [illegible] FOR COL WEINALL SEMCLN [illegible]/[illegible] AFB FOR [illegible] SEMCLN AFLC/[illegible] PATTERSON AFB FOR [illegible]. SUBJECT CLN FLASH REPORT ON THE LAUNCHING OF DISCOVERER [illegible] /[illegible] SHIFT PRESTD/.

1. DISCOVERER [illegible] CONSISTING OF THOR BOOSTER NO. [illegible] AND AGENA B ORBITAL STAGE NO. [illegible] WAS LAUNCHED FROM VAFB COMPLEX [illegible] AT [illegible] CLN [illegible] PST ON [illegible] OCT [illegible]. THE PRIMARY LAUNCH OBJECTIVE, TO PLACE THE DISCOVERER SATELLITE WITH PAYLOAD IN A NEAR-POLAR ORBIT, WAS ACCOMPLISHED. READINGS FROM THE RADAR PLOTTING BOARD GAVE AN INJECTION ALTITUDE OF [illegible] STATUTE MILES, AN INJECTION INERTIAL VELOCITY OF APPROXIMATELY [illegible] MIL, AND AN INJECTION FLIGHT PATH ANGLE OF ABOUT [illegible] DEG. TRACKING STATIONS AT [illegible] AND [illegible] HAVE CONFIRMED ORBITAL STATUS THROUGH RECEPTION OF TELEMETRY AND RADAR BEACON SIGNALS ON THE FIRST ORBITAL PASS.

2. PRELIMINARY EVALUATION INDICATES THAT LAUNCH [illegible]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[illegible] AFB CALIF

THAT WERE SIMILAR IN FREQUENCY AND MAGNITUDE TO THOSE OBSERVED ON PREVIOUS DISCOVERER VEHICLES. THUS [illegible] WAS THE FIRST DISCOVERER BOOSTER EQUIPPED WITH A MODIFIED OXIDIZER DEVICE IN AN ATTEMPT TO MINIMIZE THE OSCILLATION [illegible].

B. AGENA AIRFRAME AND ADAPTER - OBJECTIVE ACHIEVED.

NO EVIDENCE OF STRUCTURAL PROBLEMS IN THE AGENA AIRFRAME OR ADAPTER HAS BEEN NOTED. THE RETRO-ROCKETS PROVIDED THE THRUST NECESSARY FOR COMPLETE SEPARATION BY T PLUS [illegible] SEC.

C. AGENA PROPULSION SYSTEM - OBJECTIVE ACHIEVED.

AGENA ENGINE IGNITION OCCURRED IN A NORMAL MANNER AT T PLUS [illegible] SEC AND THE ENGINE OPERATED SATISFACTORILY FOR [illegible] SEC. ENGINE SHUTDOWN OCCURRED AT T PLUS [illegible] SEC ON INTEGRATOR COMMAND. THE INTEGRATOR DATA SHOW A VISCOUS VELOCITY GAIN OF [illegible] FPS DURING ORBITAL STAGE BOOST. THE [illegible] PROVIDED BY THE AGENA ENGINE WAS SUFFICIENT TO GIVE THE VEHICLE ORBITAL VELOCITY AT THE FLIGHT EQUATION ALTITUDE.

D. AGENA ELECTRICAL POWER SYSTEM - OBJECTIVE ACHIEVED.

[redacted]

[redacted]

[redacted]

[redacted]

[illegible] AFB CALIF

NO EVIDENCE OF AGENA ELECTRICAL POWER SYSTEM PROBLEMS HAS BEEN NOTED.

E. AGENA GUIDANCE AND FLIGHT CONTROL SYSTEM - OBJECTIVE ACHIEVED.

THE AGENA GUIDANCE SYSTEM RESPONDED PROPERLY TO A [illegible] SEC TIME-TO-FIRE CORRECTION AND A 1.[illegible] SEC VELOCITY-TO-BE-GAINED CORRECTION COMMANDED BY THE GROUND GUIDANCE SYSTEM. VEHICLE ATTITUDE APPEARS TO HAVE BEEN CONTROLLED SATISFACTORILY DURING THE COAST PHASE AND THE CENTRAL BOOST PHASE, AND CONTROL GAS EXPENDITURE WAS NORMAL DURING BOTH OF THESE PERIODS. ENGINE SHUTDOWN WAS COMMANDED SATISFACTORILY BY THE INTEGRATOR, AND THE D-TRAIN PROPERLY CONTROLLED THE TIME AND SEQUENCE OF ALL PROGRAMMED EVENTS THAT WERE SCHEDULED TO OCCUR PRIOR TO LOSS OF TELEMETERED DATA AT VTS.

F. AGENA SPACE COMMUNICATIONS SYSTEM - OBJECTIVE ACHIEVED.

VTS TRACKED THE ACQUISITION BEACON FROM LIFTOFF TO APPROXIMATELY T PLUS 1[illegible] SEC AT WHICH TIME THE VEHICLE DOPPLER EQUIPMENT APPARENTLY FAILED. THE RADAR BEACON WAS TRACKED FROM LIFTOFF TO T PLUS 4[illegible] SEC. AT T PLUS 512

VW[illegible]

[redacted]

[redacted]

[redacted]

[illegible] V[illegible] AND GAVE [redacted]

[illegible]. THE TIME OF [illegible] DATA [illegible] THE VEH. ALL TELE-METRY CHANNELS WERE [illegible]. [illegible] WAS [illegible]. NO [illegible] WERE [illegible] DURING THE ASCENT PHASE.

C. AGENA [illegible] - OBJECTIVE ACHIEVED.

[illegible] AND [illegible] WAS SATISFACTORILY ACCOMPLISHED DURING THE [illegible] CONDITIONS IN THE AGENA [illegible]. HOWEVER, THE FOLLOWING PROBLEMS WERE [illegible]:

(1) AT [illegible] A LEAK IN THE ACID TRANS-FER [illegible] WAS [illegible].

(2) AT [illegible] THE K-4 RELAY IN THE FUEL TRANSFER [illegible] 1000 [illegible].

(3) AT [illegible] A [illegible] IN [illegible] VALVE, THE ACID [illegible] RATE WAS [illegible] NOR-MAL.

(4) [illegible] A [illegible] THE AGENA HAD BEEN [illegible] LEVEL IN ACID AND [illegible] A

[illegible] [redacted] [redacted]

[redacted]

[redacted]

[illegible] AFB CALIF

[illegible] THE [illegible] WAS [illegible] UP [illegible] A LATER [illegible]. [illegible] RELEASE WAS [illegible] AS [illegible].

II. [illegible] – [illegible].

THE [illegible] WAS [illegible] AND [illegible] FROM LIFTOFF TO [illegible] AND GOOD [illegible] DATA WERE [illegible] FROM LIFTOFF TO [illegible]. THE [illegible] PRODUCED GOOD [illegible] DATA [illegible] FROM LIFTOFF [illegible] OF TRACK AT T PLUS [illegible] SEC. STATION [illegible] THE LAUNCH OPERATION WERE ADEQUATE.

3. [illegible].

THE [illegible] STARTED AT [illegible] ON 13 OCT 61 AND PROGRESSED TO LIFTOFF WITH TWO HOLDS TOTALING 25 MIN. HOLD NO. 1 WAS CALLED AT [illegible] BECAUSE OF ACCUMULATED DELAYS. IT WAS RELEASED [illegible] MIN LATER AT [illegible] PST. HOLD NO. 2 WAS CALLED IN PHASE V AT T MINUS 1 MIN. 17 SEC ON THE TRANSFER TO INTERNAL POWER BECAUSE [illegible] BATTERY VOLTAGE INDICATED TO BE SLIGHTLY LOW. THE HOLD WAS RELEASED TWO MINUTES LATER AFTER A RE-CHECK SHOWED IT SATISFACTORY. THE COUNTDOWN WAS RECYCLED TO BEGINNING OF PHASE V AND

[redacted]

VWXD

[redacted]

[redacted]

[illegible] AND SAID [redacted]

[illegible] TO [illegible].

4. [illegible]

[illegible] TO THE [illegible] AND [illegible] WAS NORMAL,

AND THE [illegible] WHICH [illegible] SIMILAR TO

THAT AFTER PREVIOUS LANDING FROM THE [illegible].

END.

8 APR 1966

[redacted]

[illegible]

[redacted]